

Title (en)  
Flexible film and display device including the same

Title (de)  
Flexible Folie und Anzeigevorrichtung damit

Title (fr)  
Film flexible et dispositif d'affichage le comprenant

Publication  
**EP 2146561 A1 20100120 (EN)**

Application  
**EP 09000585 A 20090116**

Priority  
• KR 20080049495 A 20080528  
• KR 20080123830 A 20081208

Abstract (en)  
A flexible film and a display device including the same are disclosed. The flexible film includes an insulating film and first and second metal layers on the insulating film. The insulating film including at least one hole, a first surface corresponding to an inner circumferential surface of the hole, a second surface corresponding to an upper surface of the insulating film, and a third surface corresponding to a lower surface of the insulating film. The first metal layer and the second metal layer are positioned on the first surface and at least one of the second and third surfaces. An angle between the first surface and the second surface is equal to or greater than an angle between the first surface and the third surface.

IPC 8 full level  
**H05K 3/42** (2006.01); **H05K 3/00** (2006.01)

CPC (source: EP US)  
**H05K 3/0032** (2013.01 - EP US); **H05K 3/426** (2013.01 - EP US); **H05K 1/0393** (2013.01 - EP US); **H05K 3/181** (2013.01 - EP US); **H05K 2201/0344** (2013.01 - EP US); **H05K 2201/09827** (2013.01 - EP US); **Y10T 428/24331** (2015.01 - EP US)

Citation (search report)  
• [X] US 5092958 A 19920303 - YARITA YOSHIO [JP], et al  
• [X] WO 0010370 A1 20000224 - MINNESOTA MINING & MFG [US]  
• [A] WO 2004113065 A1 20041229 - FCM CO LTD [JP], et al

Designated contracting state (EPC)  
DE FR GB NL

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
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